

PDY-132

(Super Yellow)

Function: Polymer Yellow

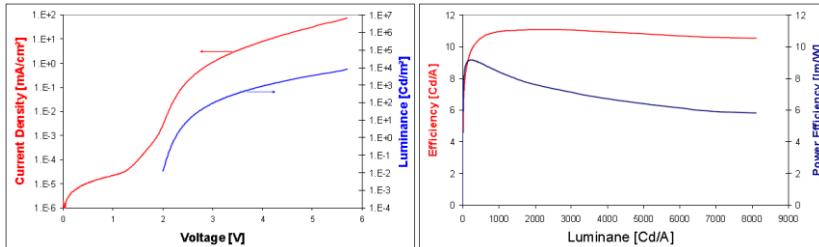
Features:

- Soluble PPV copolymer
- Excellent reproducibility
- Broad emission spectrum
- Very high efficiency
- Very low operating voltage / for PM 100.000 cd/m² pulsed <10V
- Very long DC and AC lifetime

Standard device stack ²⁾

Ag	150 nm
Ba	6 nm
PDY-132	80 nm
Pedot ³⁾	20 nm
ITO/Anode	

Typical LIV & efficiency curves ¹⁾ measured in a standard device stack ²⁾



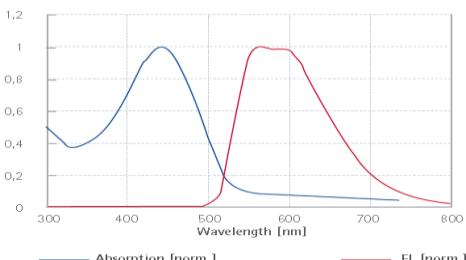
Typical performance ¹⁾ measured in a standard device stack ²⁾

	Typical Value¹
Max. Efficiency	11 cd/A
Onset Voltage	2.2 V
Voltage at 100cd/m ²	3.0 V
Voltage at 1000cd/m ²	4.3 V
Max. Power Efficiency	10 lm/W
External Quantum Efficiency	5.3 %
CIE 1931 at 100 cd/m ²	(0.50 / 0.49)
DC lifetime at 100 cd/m ² at RT	>220000 h
AC lifetime at 200 cd/m ² at RT	11000 h

Sample preparation

- 5g/l in toluene or anisole for spin-coating / ready to use formulation is available
- Special formulation needed for inkjet
- Preparation of device should be in N₂ atmosphere

Absorption spectrum & EL



1 Merck does not guarantee the same performance will be measured at customer

2 The device structure can be changed according to customer's requirements

3 Baytron® P

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